

Amendments to the Claims

This claim listing replaces all prior versions and listings of claims in the application.

1-14 (Canceled)

15. (Currently Amended) A controlled structure copolymer comprising at least two parts A and B, ~~of which have~~ **different compositions,**

wherein part A ~~comprising comprises~~ ionic or potentially ionic units, **and**

further wherein:

part A is ~~[[an]]~~ amphoteric or zwitterionic ~~part, comprising and comprises:~~

cationic or potentially cationic units A_C,

anionic or potentially anionic units A_A, and

optionally, hydrophilic and/or hydrophobic neutral units A_N,

and/or

zwitterionic units A_Z,

optionally, cationic or potentially cationic units A_C,

optionally, anionic or potentially anionic units A_A, and

optionally, hydrophilic and/or hydrophobic neutral units A_N, **and**

part B is not ~~[[an]]~~ amphoteric or zwitterionic ~~[[part]]~~.

16. (Currently Amended) The copolymer ~~as claimed in of~~ claim 15, wherein part B is a hydrophilic or hydrophobic neutral part comprising hydrophilic or hydrophobic neutral units.

17. (Currently Amended) The copolymer ~~as claimed in of~~ claim 15, **wherein said copolymer has having** one of the following structures:

a block copolymer~~[[,]]~~ comprising at least two blocks, **wherein** part A ~~corresponding~~ **corresponds** to one block **of the block copolymer, and** part B ~~corresponding~~ **corresponds** to

another block of the block copolymer, and further wherein part A optionally ~~having~~ has a composition gradient,

a comb or grafted copolymer[[,]] comprising a backbone and side chains, wherein with part A ~~corresponding~~ corresponds to the backbone, and part B ~~corresponding~~ corresponds to side chains, or wherein with part B ~~corresponding~~ corresponds to the backbone and part A ~~corresponding~~ corresponds to side chains, or

a star or microgel copolymer[[,]] comprising a polymeric or nonpolymeric core[[,]] and peripheral polymeric chains, wherein one part of parts A and B ~~corresponding~~ corresponds to the core, the other of parts A and B ~~corresponding~~ corresponds to the peripheral chains.

18. (Currently Amended) The copolymer ~~as claimed in~~ of claim 15, having comprising a (block A)-(block B) diblock copolymer, a (block A)-(block B)-(block A) triblock copolymer or a (block B)-(block A)-(block B) triblock copolymer.

19. (Currently Amended) The copolymer as claimed in claim 15, wherein said copolymer is obtained by ~~means of~~ a controlled radical polymerization ~~process~~.

20. (Currently Amended) The copolymer ~~as claimed in~~ of claim 15, wherein part B is a neutral part, and ~~in that~~ part A has a positive, negative or neutral average charge Q.

21. (Currently Amended) The copolymer ~~as claimed in~~ of claim 15, wherein said copolymer is being in the form of a powder, ~~in the form of~~ a dispersion in a liquid, or ~~in the form of~~ a solution ~~in a solvent~~.

22. (Currently Amended) The copolymer ~~as claimed in~~ of claim 15, wherein the units A_C are derived from [[the]] monomers comprising [[are]]:

N,N-(dialkylamino- ω -alkyl)amides of α,β -monoethylenically unsaturated carboxylic acids, α,β -monoethylenically unsaturated amino esters,

vinylpyridines,

vinylamine,

vinylimidazolines,

monomers that are precursors of amine functions which give rise to primary amine functions by simple acid or base hydrolysis,

acryloyl- or acryloyloxyammonium monomers,

N,N-dialkyldiallylamine monomers, **[[or]]**

polyquaternary monomers, **or**

mixtures thereof.

23. **(Currently Amended)** The copolymer ~~as claimed in~~ **of** claim 22, wherein the units A_C **are** derived from **[[the]]** monomers **comprising:** **[[are]]**

N,N-dimethylaminomethylacrylamide, N,N-dimethylaminomethylmethacrylamide, 2-(N,N-dimethylamino)ethylacrylamide, , 2-(N,N-dimethylamino)ethylmethacrylamide, 3-(N,N-dimethylamino)propylacrylamide, 3-(N,N-dimethylamino)propyl methacrylamide, 4-(N,N-dimethylamino)butylacrylamide, 4-(N,N-dimethylamino)butylmethacrylamide, 2-(dimethylamino)ethyl acrylate (DMAA), 2-(dimethylamino)ethyl methacrylate (DMAM), 3-(dimethylamino)propyl methacrylate, 2-(tert-butylamino)ethyl methacrylate, 2-(dipentylamino)ethyl methacrylate, 2(diethylamino)ethyl methacrylate, N-vinylformamide, N-vinylacetamide,

trimethylammonium propyl methacrylate chloride, trimethylammonium ethylacrylamide chloride, trimethylammonium ethylacrylamide bromide, trimethylammonium ethylmethacrylamide chloride, trimethylammonium ethylmethacrylamide bromide, trimethylammonium butylacrylamide methyl sulfate, trimethylammonium butylmethacrylamide

methyl sulfate, trimethylammonium propylmethacrylamide methyl sulfate (MES), (3-methacrylamidopropyl)trimethylammonium chloride (MAPTAC), (3-acrylamidopropyl)trimethylammonium chloride (APTAC), methacryloyloxyethyltrimethylammonium chloride, methacryloyloxyethyltrimethylammonium methyl sulfate, acryloyloxyethyltrimethylammonium chloride,

1-ethyl-2-vinylpyridinium bromide, 1-ethyl-2-vinylpyridinium chloride, 1-ethyl-2-vinylpyridinium methyl sulfate, 1-ethyl-4-vinylpyridinium bromide, 1-ethyl-4-vinylpyridinium chloride, 1-ethyl-4-vinylpyridinium methyl sulfate;

N,N-dimethyldiallylammonium chloride (DADMAC);

dimethylaminopropylmethacrylamide chloride, or N-(3-chloro-2-hydroxypropyl)trimethylammonium (DIQUAT),

trimethylammonium ethyl acrylate methyl sulfate (ADAMquat), or mixtures thereof.

24. (Currently Amended) The copolymer ~~as claimed in~~ of claim 15, wherein the units A_A are derived from ~~[[the]]~~ monomers **comprising:** ~~[[are]]~~

α,β -ethylenically unsaturated carboxylic acids or ~~[[the]]~~ corresponding anhydrides, or their water-soluble salts~~[[,]]~~;

precursors of carboxylate functions, which, after polymerization, ~~give rise to~~ **form** carboxylic functions by hydrolysis~~[[,]]~~;

monomers having at least one sulfate or sulfonate function, or their water-soluble salts~~[[,]]~~;

monomers having at least one phosphonate or phosphate function, the esters of ethylenically unsaturated phosphates, or their water-soluble salts; or

mixtures thereof.

25. (Currently Amended) The copolymer ~~as claimed in~~ of claim 24, wherein the units A_A ~~are~~ **comprise** acrylic, methacrylic or maleic acids or anhydrides, fumaric acid, itaconic acid, N-methacroylalanine, N-acryloylglycine, tert-butyl acrylate, 2-sulfooxyethyl methacrylate, vinylbenzene sulfonic acid, allyl sulfonic acid, 2-acrylamido-2-methylpropane sulfonic acid, sulfoethyl acrylate or methacrylate, sulfopropyl acrylate or methacrylate, vinylphosphonic acid, the phosphates derived from hydroxyethyl methacrylate or the phosphates derived from polyoxyalkylene methacrylates.

26. (Currently Amended) The copolymer ~~as claimed in~~ of claim 15, wherein the units A_N ~~are~~ derived from ~~[[the]]~~ monomers ~~[[are]]~~ **comprising:**

vinylaromatic monomers,

vinyl halides, vinylidene halides,

C_1 - C_{12} alkylesters of α,β -monoethylenically unsaturated acids,

vinyl esters of saturated carboxylic acids, allyl esters of saturated carboxylic acids,

α,β -monoethylenically unsaturated nitriles ~~containing~~ **having** from 3 to 12 carbon atoms,

α -olefins,

conjugated dienes,

monomers ~~capable of generating~~ **that generate** polydimethylsiloxane chains,

hydroxyalkyl esters of α,β -ethylenically unsaturated acids,

α,β -ethylenically unsaturated amides,

α,β -ethylenically unsaturated monomers bearing a water-soluble polyoxyalkylene segment of the polyethylene oxide type,

α,β -ethylenically unsaturated monomers which are precursors of hydrophilic units or segments, which, once polymerized, can be hydrolyzed ~~in order to give rise to~~ to form vinyl alcohol units or polyvinyl alcohol segments,

vinylpyrrolidones, [[or]]

α,β -ethylenically unsaturated monomers of the ureido type, or

mixtures thereof.

27. (Currently Amended) The copolymer ~~as claimed in~~ of claim 26, wherein the units A_N are comprise:

styrene, alpha-methylstyrene, vinyltoluene,

vinyl chloride, vinylidene chloride,

methyl, ethyl or butyl acrylates and methacrylates, 2-ethylhexyl acrylate,

vinyl or allyl acetates, propionates, versatates, stearates,

acrylonitrile, methacrylonitrile,

ethylene,

butadiene, isoprene, chloroprene,

hydroxyethyl or hydroxypropyl acrylates and methacrylates, glyceryl monomethacrylate,

acrylamide, N,N-dimethylmethacrylamide, N-methylolacrylamide,

polyethylene oxide α -methacrylates or α,ω -dimethacrylates, ω -behenyl polyoxyethylene methacrylate, and ω -tristyrylphenyl polyoxyethylene methacrylate,

vinyl acetate,

vinylpyrrolidones, [[or]]

2-imidazolidinone-ethyl methacrylamide, or

mixtures thereof.

28. **(Currently Amended)** The copolymer ~~as claimed in~~ of claim 15, wherein the units A_z are derived from ~~[[the]]~~ monomers ~~[[are]]~~ comprising:

sulfobetaine monomers, phosphobetaine monomers, ~~[[or]]~~ carboxybetaine monomers, or mixtures thereof.

29. **(Currently Amended)** The copolymer ~~as claimed in~~ of claim 28, wherein the units A_z are comprise:

sulfopropyl dimethylammonium ethyl methacrylate, sulfopropyldimethylammonium propylmethacrylamide, sulfopropyl-2-vinylpyridinium, ~~[[or]]~~ phosphatoethyl trimethylammonium ethyl methacrylate, or mixtures thereof.

30. **(Currently Amended)** The copolymer ~~as claimed in~~ of claim 15, wherein part B comprises units derived from hydrophobic neutral monomers ~~which are~~ comprising:

vinylaromatic monomers,

vinyl halides, vinylidene halides,

C_1 - C_{12} alkylesters of α,β -monoethylenically unsaturated acids

vinyl esters of saturated carboxylic acids, allyl esters of saturated carboxylic acids,

α,β -monoethylenically unsaturated nitriles ~~containing~~ having from 3 to 12 carbon atoms,

α -olefins,

conjugated dienes, ~~[[or]]~~

monomers capable of generating polydimethylsiloxane chains, or

mixtures thereof.

31. **(Currently Amended)** The copolymer ~~as claimed in~~ of claim 30, wherein the units of part B are derived from hydrophobic neutral monomers ~~which are~~ comprising:

styrene, alpha-methylstyrene, vinyltoluene,

vinyl chloride, vinylidene chloride,
methyl, ethyl or butyl acrylates and methacrylates, 2-ethylhexyl acrylate,
vinyl or allyl acetates, propionates, versates, stearates,
acrylonitrile, methacrylonitrile,
ethylene,
butadiene, isoprene, ~~[[or]]~~ chloroprene, or
mixtures thereof.

32. (Currently Amended) The copolymer ~~as claimed in~~ of claim 17, wherein said copolymer has ~~having~~ a block copolymer structure~~[[,]]~~ comprising at least two blocks, ~~part A~~ ~~corresponding to one block, part B corresponding to another,~~ further wherein part A ~~having~~ has a homopolymer~~[[,]]~~ structure if it comprises units A₂, a random copolymer structure, or a composition gradient copolymer structure.

33. (Currently Amended) A detergent composition, fabric care composition, ~~[[a]]~~ or composition for cleansing, treating and/or protecting the skin and/or the hair, comprising ~~a~~ ~~copolymer as defined in claim 15~~ the copolymer of claim 15.